

### 309.8 - Magnetic Moment

These Standard Reference Materials are intended for use in the calibration of magnetometers (such as vibrating sample magnetometers) that are used in the measurement of magnetic properties of materials.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	762	764a	772a	2853
Description	Magnetic Moment Standard Nickel Disk	Magnetic Susceptibility Standard - Platinum Cylinder	Nickel Sphere for Magnetic Moment	Magnetic Moment Standard - Yttrium Iron Garnet Sphere
Unit Size	(6 mm dia)	(3 mm dia. x 3.42 L)	(each)	(ea)
Certified Value	54.78 A•m <sup>2</sup> /kg±0.15 A•m <sup>2</sup> /kg (54.78 emu/g ± 0.15 emu/g)	$1.268 \times 10^{-8} \text{ m}^3/\text{kg} \pm 0.004 \times 10^{-8}$ $\text{m}^3/\text{kg}$ ( $1.009 \times 10^{-6} \text{ emu/g/0e} \pm 0.003$ $\times 10^{-6} \text{ emu/g.0e}$ )	3.47 mA•m <sup>2</sup> ± 0.01 mA•m <sup>2</sup> (3.47 emu ± 0.01 emu)	27.6 A•m <sup>2</sup> /kg ± 0.1 A•m <sup>2</sup> /kg (27.6 emu/g ± 0.1 emu/g)